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Kosann et al.

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(54) **ELECTRONIC DISPLAY LOCKET AND SYSTEM**

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H04L 29/08072

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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Primary Examiner — Danh Le

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(74) *Attorney, Agent, or Firm* — Gordon & Jacobson, P.C.

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(57) **ABSTRACT**

Related U.S. Application Data

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A locket includes a chamber and a door, with the chamber housing an electronic display, a microprocessor with associated memory coupled thereto, a wireless transceiver coupled to the microprocessor, and a power source. Messages/pictures can be displayed on the display through use of a system incorporating the locket, a mobile unit having a locket application and a wireless transceiver, and an application server device with a database. The system may also include a separately networked computer-type device. A locket user can log into the application server, register the locket, and create a user profile including one or more of interests, personal information, social connections, etc., that would establish how the locket can receive content. The system allows permitted friends to send messages/pictures through the application server to the locket for display.

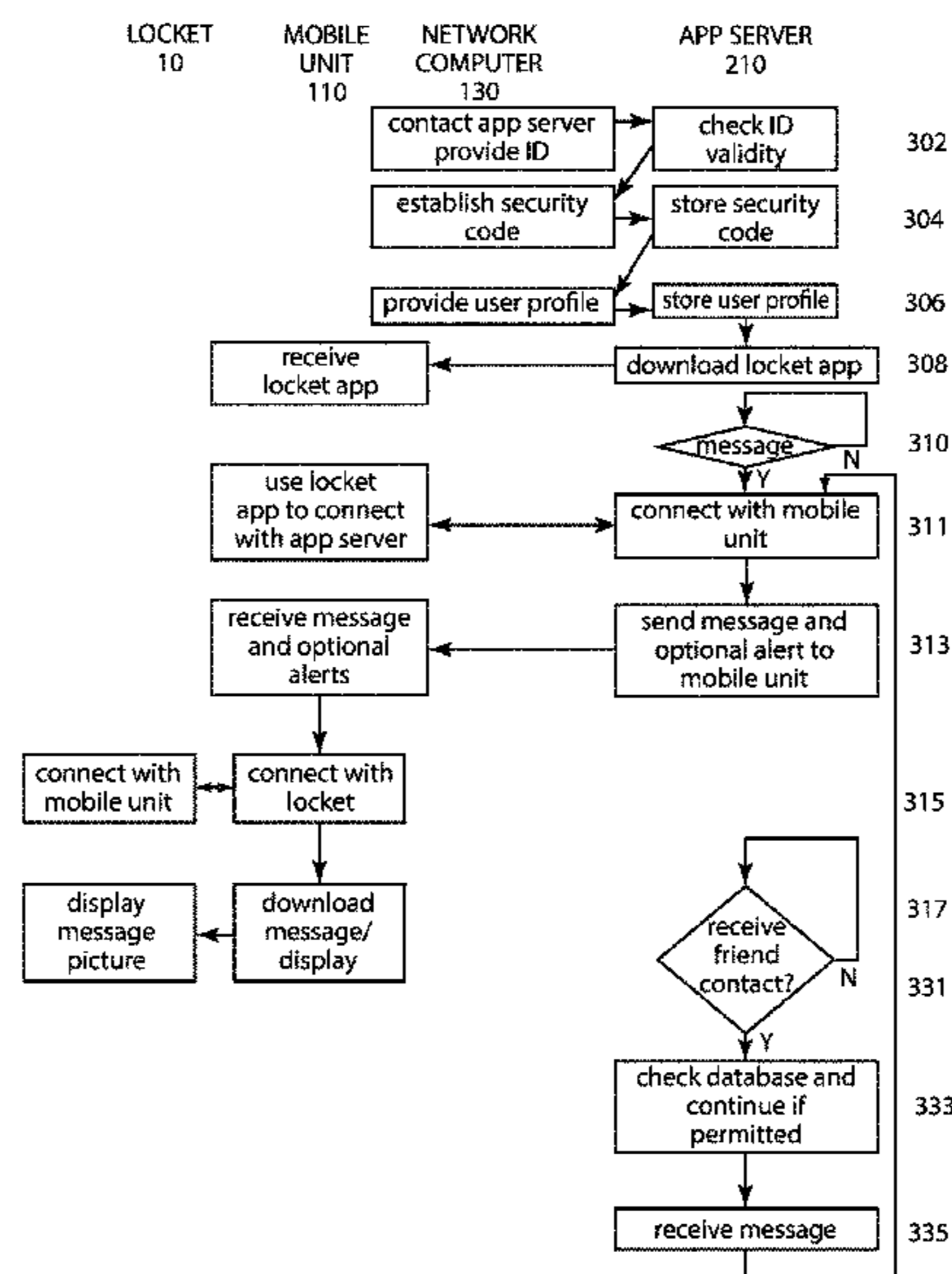
(51) **Int. Cl.**
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A44C 25/00 (2006.01)

(Continued)

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17 Claims, 3 Drawing Sheets



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H04B 1/40 (2015.01)
G06F 3/147 (2006.01)
H04B 1/3827 (2015.01)
H04B 1/3888 (2015.01)
H04W 4/12 (2009.01)
- (52) **U.S. Cl.**
 CPC *H04B 1/385* (2013.01); *H04B 1/3888* (2013.01); *H04B 1/40* (2013.01); *H04W 4/008* (2013.01); *G09G 2370/10* (2013.01); *G09G 2370/16* (2013.01); *G09G 2370/22* (2013.01); *G09G 2380/02* (2013.01); *G09G 2380/16* (2013.01); *H04B 2001/3866* (2013.01); *H04W 4/12* (2013.01)
- (58) **Field of Classification Search**
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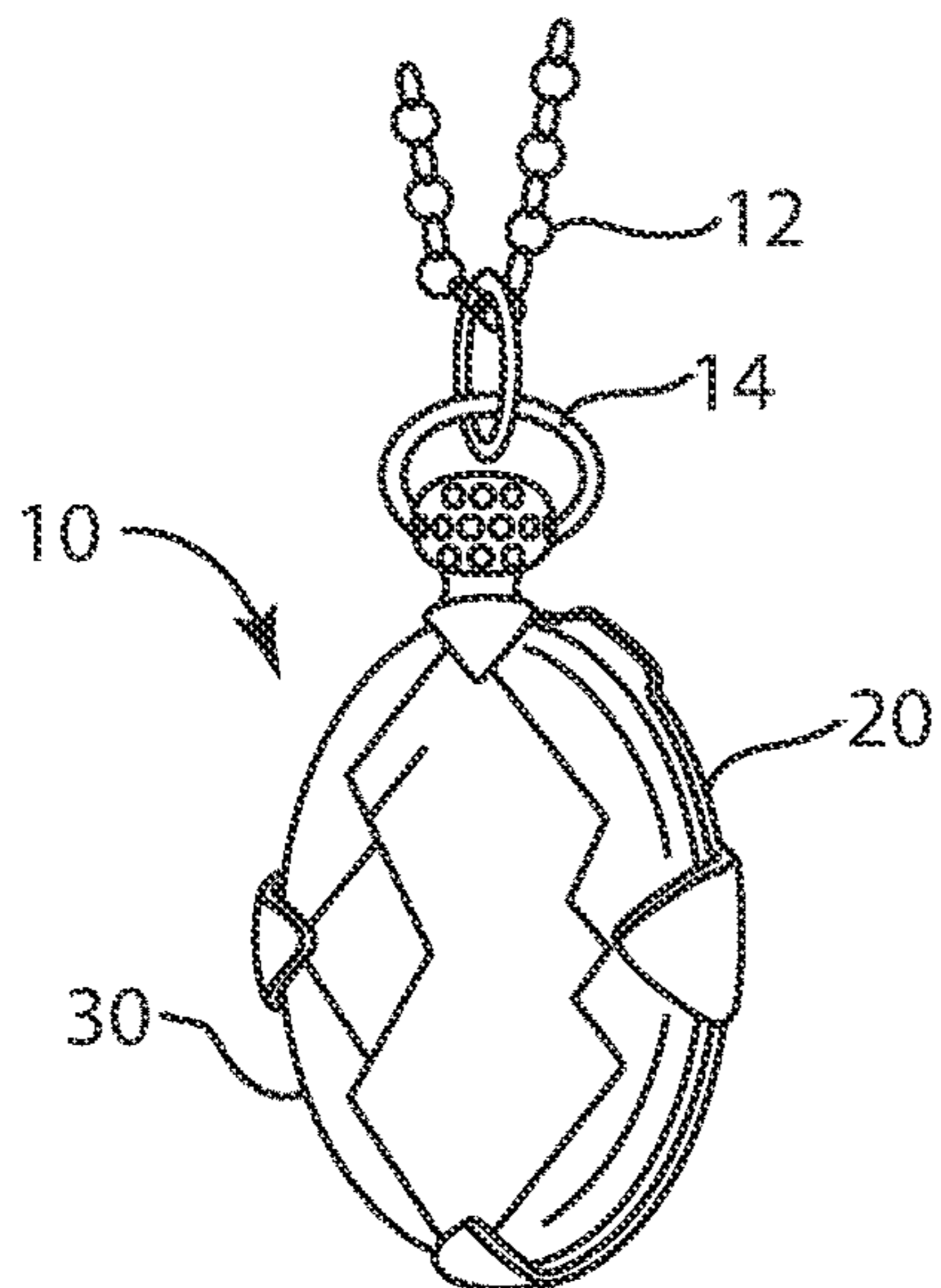


Fig. 1

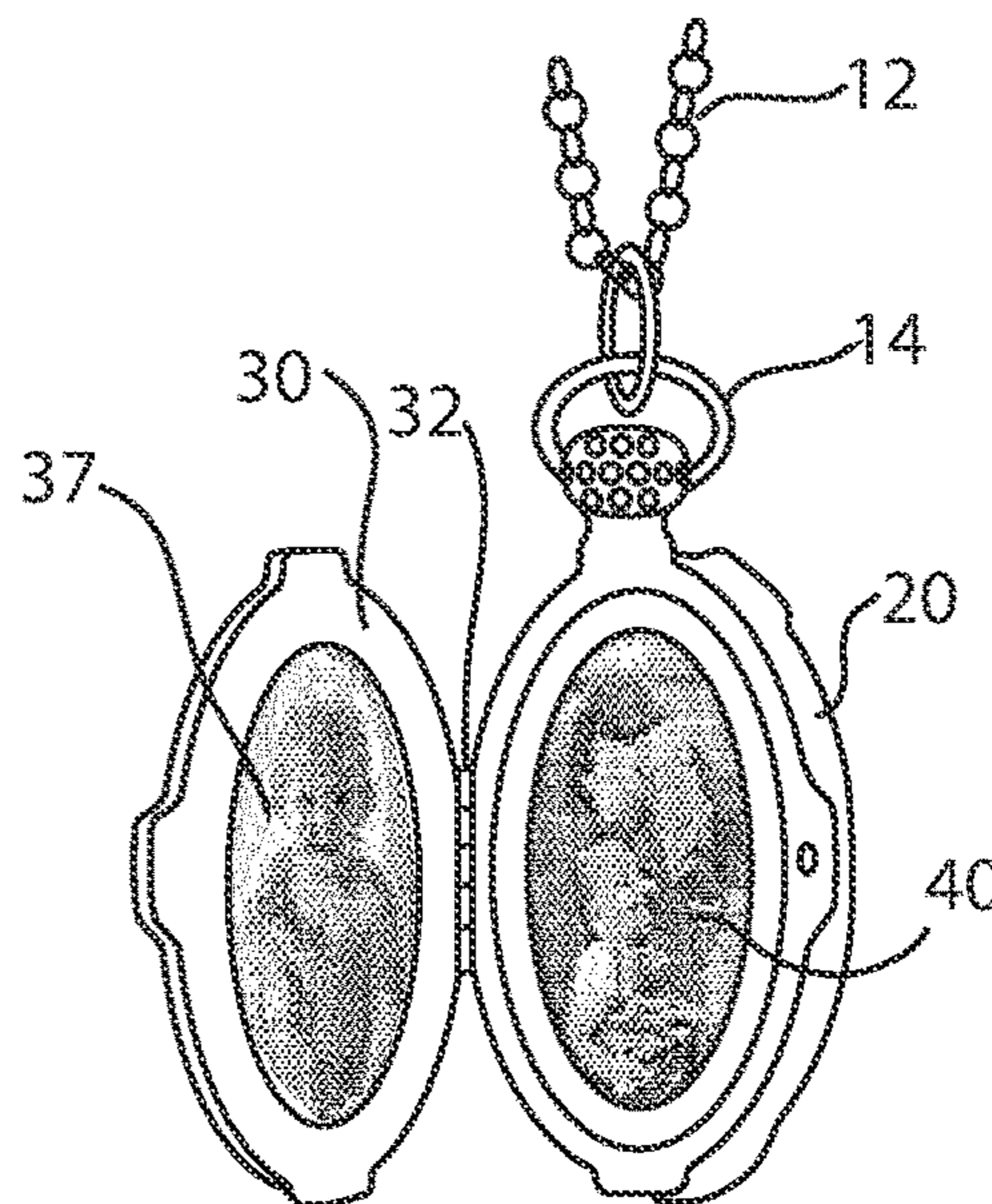


Fig. 2

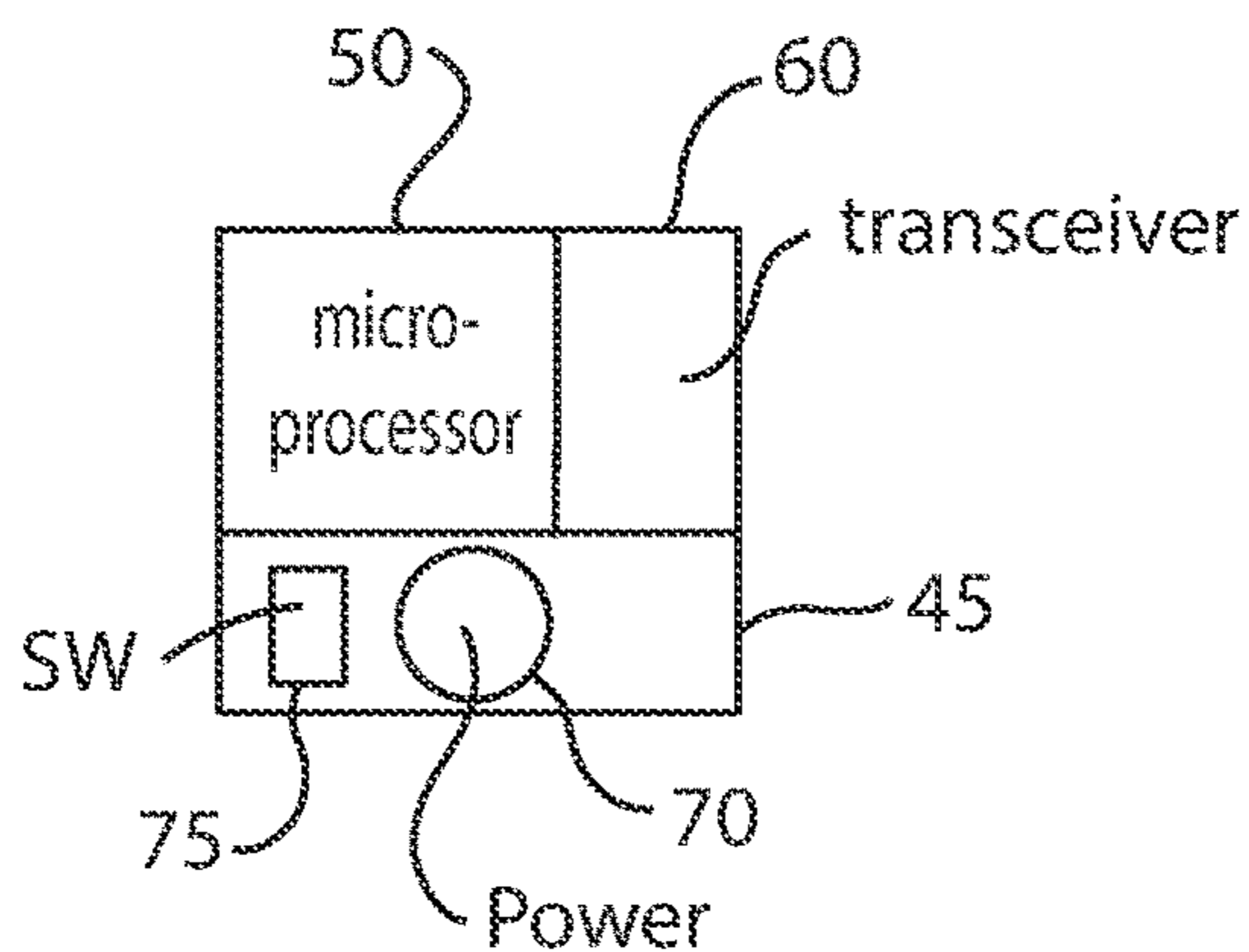


Fig. 3

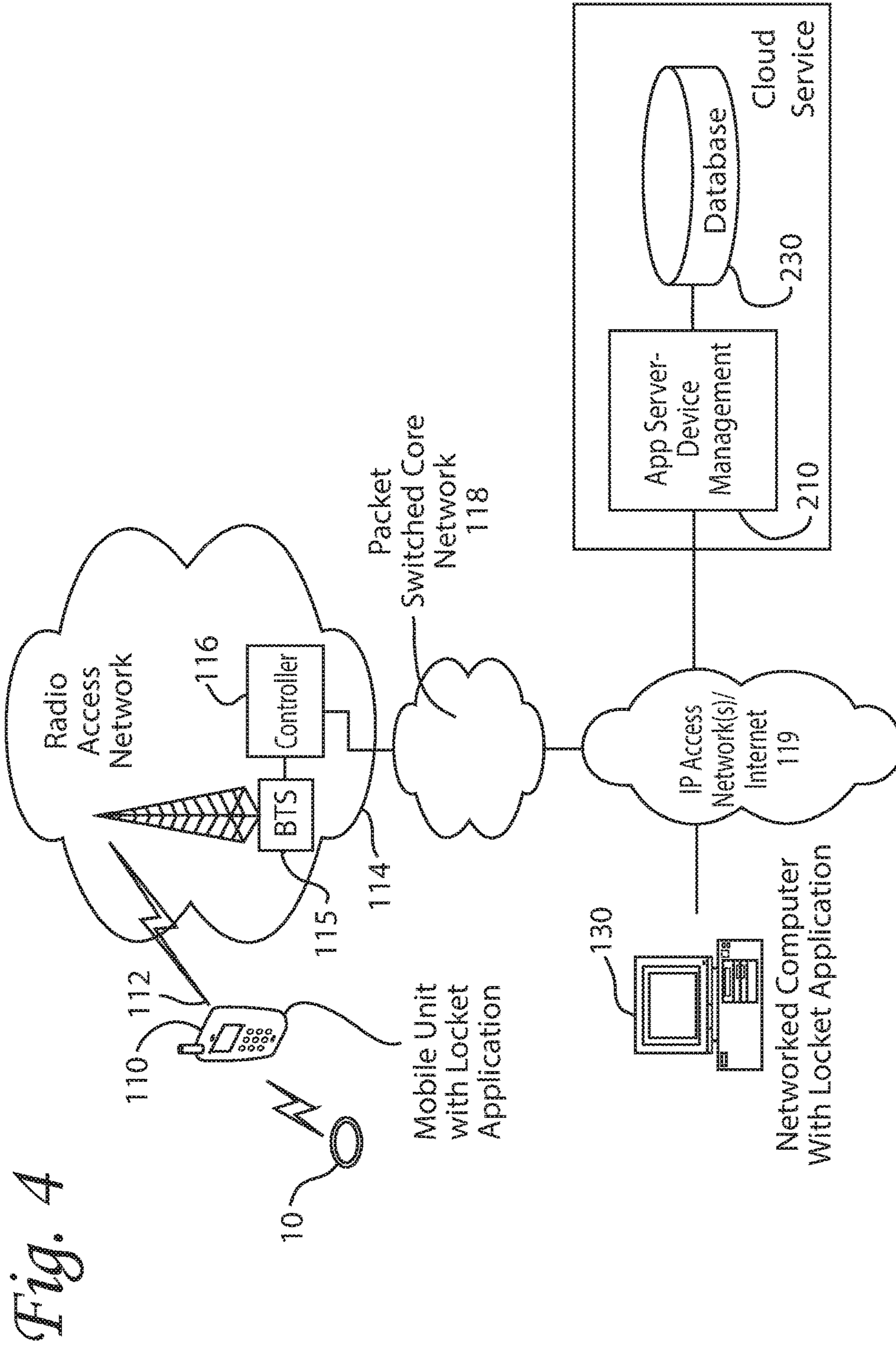


Fig. 4

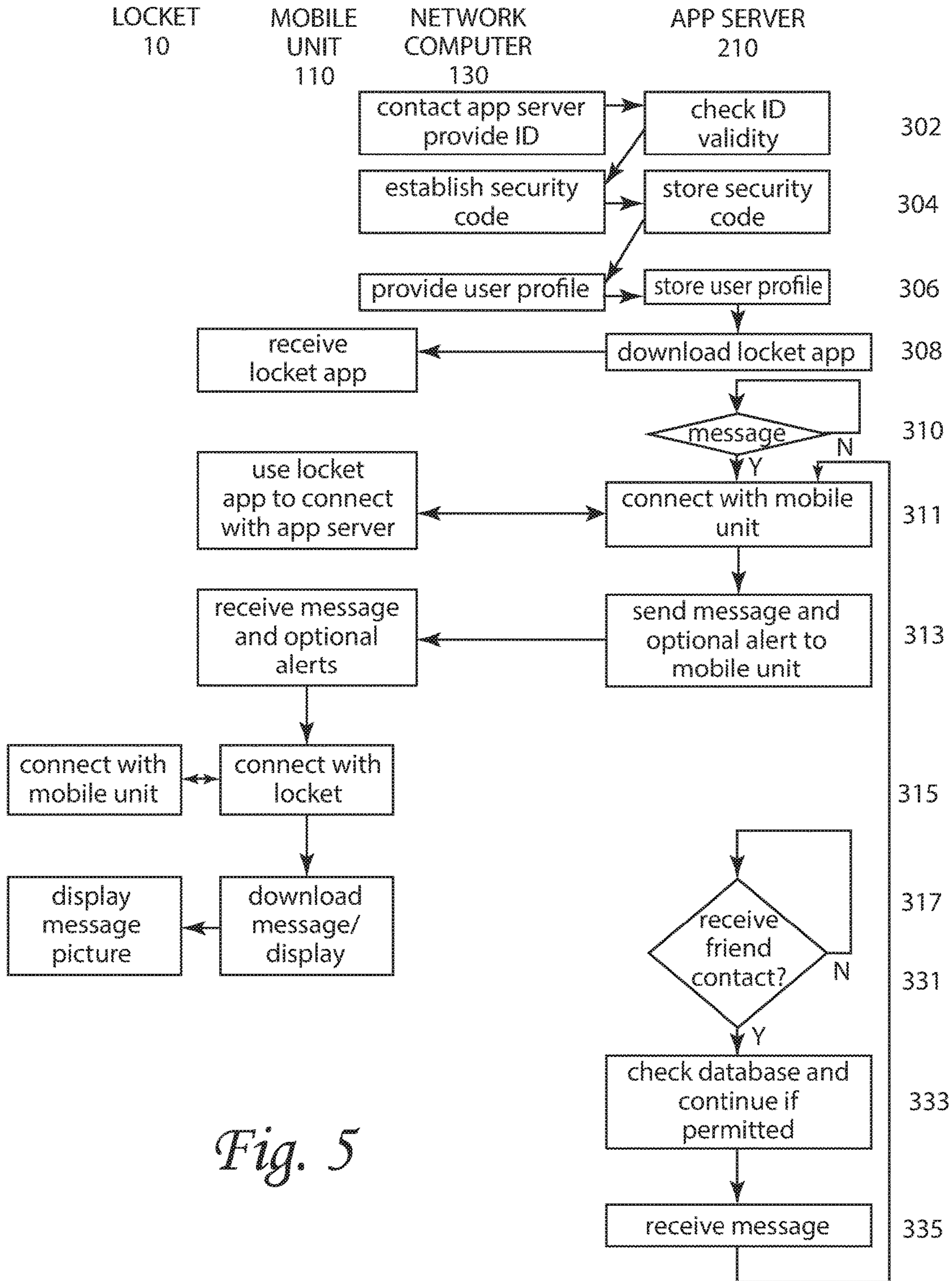


Fig. 5

ELECTRONIC DISPLAY LOCKET AND SYSTEM

CROSS-REFERENCE TO RELATED APPLICATION

This application is a divisional of U.S. application Ser. No. 14/305,869 filed on Jun. 16, 2014, which is hereby incorporated by reference herein in its entirety.

BACKGROUND OF THE INVENTION

1. Field

The subject disclosure relates to small wearable devices incorporating an electronic display and systems associated therewith. More particularly, the subject disclosure relates to lockets and other wearable devices that incorporate an electronic display and systems associated therewith where the user may control in advance what and who can provide viewable information and pictures to the wearable device.

2. State of the Art

Locketts are pendants with a small chamber and a door that opens to reveal a photograph or other small item held in the chamber. Locketts are generally worn on chains around the neck of a person and often hold a photo of the person who gave the locket. Locketts come in various shapes and are often made of precious metals such as gold or silver, and may also be set with precious or semi-precious stones. They generally hold one or two small photographs or a keepsake item such as a lock of hair.

SUMMARY OF THE INVENTION

This summary is provided to introduce a selection of concepts that are further described below in the detailed description. This summary is not intended to identify key or essential features of the claimed subject matter, nor is it intended to be used as an aid in limiting the scope of the claimed subject matter.

In one embodiment, a locket is provided that includes a chamber and a door covering the chamber, with the chamber housing an electronic display, a microprocessor with associated memory coupled to the display, a wireless transceiver coupled to the microprocessor, and a power source. In one embodiment, the chamber is made at least partially of a precious metal such as gold or silver, and the door is made at least partially of a precious metal such as gold or silver, or of crystal, quartz, or mother-of-pearl, or a precious or semi-precious stone. In one embodiment, the electronic display is an LCD display no more than two inches by two inches in size. In another embodiment, the electronic display is an LCD display of approximately one inch by one inch in size. In one embodiment, the battery is a rechargeable battery. The rechargeable battery may be recharged using a hardwire connection provided to the locket, or the locket may be provided with an induction coil and the battery may be recharged using a surface (induction) charger.

In one embodiment, a system is provided that includes the afore-described locket having the chamber, door, electronic display, microprocessor, wireless transceiver and power source. The system further includes a mobile unit such as a cell phone having a locket application and a wireless transceiver, and an application server device with a database. In one embodiment, the system may also include a separately networked device such as a desktop, laptop, or other computer.

According to one embodiment, upon purchase (or receipt) of the locket, a user could log into the application server device, register the locket, and create a profile for themselves. Login could be established via a mobile phone, or a networked device such as a desktop, laptop, or other computer. The profile could establish one or more of interests, personal information, social connections, etc., that would establish how the locket can receive content. For example, the profile could indicate that the user is religious and would like to receive a message or picture with religious content every morning at 6 AM. Alternatively, or in addition, as another example, the profile could identify the email addresses of one, two, or more people (“friend(s)”) from whom the user is willing to receive pictures and/or messages on the locket. The user could also provide a default picture for the locket. The personal information kept in the profile may include an email address for the user and a mobile telephone number. All of the information regarding the profile is stored on the application server device. In one embodiment, the user might then download an application (“a locket app”) for a mobile device that the user is likely to keep near herself, e.g., a mobile phone. The mobile device may then be synchronized (synched) to the locket via the wireless transceivers. For example, each transceiver may be a BLUETOOTH transceiver (Bluetooth being a trademark of the Bluetooth Special Interest Group, of Kirkland, Wash.) using a BLUETOOTH standard protocol. Thus, upon registration and generation of a profile, the application server device may send a message (e.g., a default picture selected by the user that may have been uploaded to the application server device by the user) to the mobile device. If the locket is on or is turned on, the message is then forwarded to the locket using the BLUETOOTH protocol, and the locket can then display the message on the LCD display.

In one embodiment, when a “friend” wishes to send the locket user a picture or message, the friend can access the application server device and upon establishing their identity, can upload the picture and/or message for delivery to the locket of the user. In one embodiment, if the user’s profile permits receipt of a picture and/or message from the friend, the picture and/or message is forwarded to the mobile device of the user utilizing the “loket app” synching. Then, when the user turns on the locket, or if the locket is kept on, the mobile device will forward the picture and/or message to the locket utilizing the transceivers, and the picture and/or message will appear on the LCD display.

In one embodiment, the user may set her profile to keep a friend’s message or picture for a predetermined amount of time until the default message or picture reappears. In another embodiment, the user may generate a message from the locket or from the mobile device to reset the display. In another embodiment, the profile may keep a friend’s message or picture until another message or picture is received.

In one embodiment, the locket is provided with an on-off switch that is activated when the locket is opened. In other words, the electronics of the locket is turned off when the door of the locket is closed, and the locket turns on when the door is opened.

Additional aspects of the subject disclosure will become evident to those of ordinary skill in the art upon reference to the drawings, specification, and claims hereof.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a perspective view of an electronic display locket in a closed position.

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FIG. 2 is a perspective view of an electronic display lock in an open position.

FIG. 3 is a block diagram of an electronic display lock.

FIG. 4 is a diagram of a system incorporating an electronic display lock, a mobile unit with a lock app, and an application server device.

FIG. 5 is a flow diagram showing a method of initiating and using an electronic display lock.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

One embodiment of an electronic display lock **10** is seen in FIGS. 1-3. In FIGS. 1 and 2, lock **10** is shown hanging from a chain **12** via a connector link **14**. The lock **10** includes a chamber **20** having a plurality of walls and a door **30** covering the chamber. The door **30** is movable from a closed lock position (FIG. 1) to an open lock position (FIG. 2). While the door and chamber are shown with hinges **32** for rotation of the door relative to the chamber, it will be appreciated that the door of the lock could swing open with the door staying in the same plane, rather than rotating about a hinge axis. In one embodiment, the chamber is made at least partially of a precious metal such as gold or silver, and the door is made at least partially of a precious metal such as gold or silver, or of crystal, quartz, or mother-of-pearl, or of a precious or semi-precious stone. In one embodiment, the door is provided with a slot for storing a tangible picture **37**. The door and chamber may also be provided with a latch-clasp mechanism for keeping the door in a closed position and for permitting release of the door.

As seen in FIG. 2, the chamber **20** of the lock **10** houses an electronic display **40** which is either flush with or slightly recessed into the top of the chamber. Behind the display **40**, is a substrate **45** (such as a PCB board) that supports electronic components including microprocessor **50** (with associated memory) coupled to the display **40**, a short range wireless transceiver **60** coupled to the microprocessor, and a power source **70** as shown in FIG. 3. In one embodiment, the electronic display is an LCD display no more than two inches by two inches in size.

In another embodiment, the electronic display is an LCD display of approximately one inch by one inch in size. For purposes herein, the term "approximately" when relating to sizes shall be understood to mean plus or minus 10%. In other embodiments, the electronic display is between 0.75 inches and 2.5 inches in two dimensions. The electronic display may be round, octagonal, square, rectangular, oval, or of other shape. The display may also be partly covered along portions of its periphery so as to appear to assume a particular shape. Various such displays are available such as a LS010B7DH01 0.99-inch Memory LCD of Sharp Electronics Corp., Mahwah, N.J. The short range wireless transceiver **60** can provide for bidirectional wireless communication to other nearby devices via one or more standard wireless protocols such as the BLUETOOTH protocol. The microprocessor **50**, transceiver **60** and display **40** are powered by the battery **70** that provides appropriate voltage(s) to the microprocessor, transceiver and display, or which includes circuitry to provide the required voltage(s). In one embodiment, the battery is a button type battery that can be removed and replaced from the back of the chamber via a second chamber door (not shown). In another embodiment, the battery is a rechargeable battery or super-capacitor. The rechargeable battery may be recharged using a hardware connection provided to the lock (not shown). In another embodiment, the lock may be provided with an induction

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coil (not shown), and associated circuitry that operate to recharge the battery using a surface (induction) charger. Where an induction coil is utilized, the back of the chamber can be formed from a non-metallic substance such as crystal, plastic, quartz, or other stone that will allow for induction charging via the coil.

In one embodiment, an on-off switch **75** is provided in or adjacent to the chamber **20**. The switch **75** is operatively coupled to the microprocessor **50** and can be configured to selective turn on/off one or more of the LCD display **40** and the transceiver **60**. In one embodiment, the switch **75** is activated by the door **30** such that when the door of the lock is closed, the electronics are turned off, and when the door is opened, the electronics are turned on. By way of example, the switch, in a first position may interrupt a power supply circuit to the elements that are turned off, and in a second position, the power supply circuit is completed.

Turning now to FIG. 4, a diagram of a system **100** is provided incorporating an electronic display lock **10**, a mobile unit **110** with a lock app, and an application server device **210**. More particularly, a mobile unit **110** such as a cell phone, an iPad (a trademark of Apple, Inc. of Cupertino, Calif.), or similar device is provided with a short range wireless transceiver **112** such as a BLUETOOTH transceiver. As suggested by FIG. 4, the transceiver **112** of the mobile unit **110** and the transceiver **60** of the electronic display lock **10** can communicate with each other. In addition, the mobile unit **110** supports wireless communication over a cell-based radio access network **114** that includes base stations **115** and corresponding controllers **116** that interface to a packet switched core network **118** that is connected to an IP access network and the Internet **119**. The mobile unit **110** is also provided with a lock app that may be downloaded to the mobile unit **110** via the radio access network **114** as described hereinafter. In one embodiment, the system may also include a separately networked device such as a desktop, laptop, or other computer **130** that is coupled to the Internet **119**. The mobile unit **110**, and where utilized, the networked computer **130** include software suitable for interacting with the cloud service utilizing networked communication.

The communication network(s) **114**, **118**, **119**, as well as the operating system of the mobile unit **110** and the networked computer **130** can provide support for TCP/IP networking and suitable messaging protocols in order to communicate messages and/or data between such devices and the cloud service. Those skilled in the art will recognize that the complete structure and operation of communication networks and other components within the system are not depicted or described. Embodiments may be employed in conjunction with known communications networks and other components.

The system of FIG. 4 incorporates the application server device **210** and associated database **230**. In conjunction with the database **230**, the application server device **210** can communicate with the lock app, executing on the mobile unit **110** in order to perform multiple tasks and allowing access by the user of the lock and friends of the user to perform multiple tasks. While not shown, mobile units and/or networked computers of friends may also be connected via either or both of the radio access network **114** and the Internet **119** to the application server device **210**. In addition, while not shown, a single application server device **210** may be used to service the functionality of numerous (e.g., thousands or tens of thousands or more) different electronic display locks.

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In one embodiment, for each electronic display locket, the application server **210** is suitably configured to: register the electronic display locket, receive and store a profile for the locket user, provide a locket app to the mobile unit and/or networked computer of the user, determine whether a contact providing messages and/or pictures is a friend of the user, receive messages and/or pictures from friends of the user, and exchange data with the mobile device **110** of the user via the radio access network **114** in order to load data representing messages and/or pictures onto the mobile unit. Once loaded onto the mobile unit **110**, the messages and/or pictures can be communicated to the locket **10** via the wireless link therebetween for visual display on the display screen **40** of the locket **10**.

In one aspect, each electronic display locket **10** may be provided with a unique serial number or code that identifies that locket. When a user acquires the locket, and as seen in FIG. **5**, that identification may be provided to the application server **210** by contacting the application server **210** and providing the identification at **302**. The electronic display locket will then be registered. The user may be asked at **304** to provide and may provide a password or other code for security purposes that may be used upon logging into the server.

In one aspect, once an electronic display locket is registered, the user (owner) of the locket may generate a user profile at **306**. The profile may establish one or more of interests, personal information, social connections, etc., that would establish how the user's locket can receive content. For example, the profile could indicate that the user is religious and would like to receive a message or picture with religious content every morning at 6 AM. That message or picture may be provided by the application server provider or a subcontractor and stored in memory associated with the application server device for delivery at the desired time. Alternatively, the profile could indicate that the user enjoys surprises and would like images, words, quotations, etc. provided to the locket at random times. The application server could then access a database of images, words, or quotations and deliver the same at random times. Alternatively or in addition, as another example, the profile could identify the email addresses of one, two, or more people ("friend(s)") from whom the user is willing to receive pictures and/or messages on the locket. The user could also provide a default picture for the locket. The personal information kept in the profile may include an email address for the user and a mobile telephone number. All of the information regarding the profile is stored in the database **230** associated with the application server device **210**.

In one aspect, once an electronic display locket is registered, at **308** the user might then download from the application server device **210** an application ("a locket app") for a mobile device that the user is likely to keep near herself, e.g., a mobile phone, and that

In one aspect, at any time after the electronic locket is registered and the user has obtained the locket app for her mobile device, if a message is to be sent at **310**, the mobile device may be synchronized (synched) by connecting at **311** to the application server device **210** and by downloading the message at **313**. This may be done in a manner chosen by the user or according to a default mechanism. For example, the user might choose to actively generate a synchronization by accessing the app on the mobile device **110** and hitting "synch". Alternatively, as long as the app is running on the mobile device **110**, the application server device **210** may periodically synch. Upon synchronization, the application server device **210** may send a message at **313** (e.g., a default

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picture selected by the user that may have been uploaded to the application server device by the user) to the mobile device.

In one aspect, when a message from the application server device **210** is provided to the mobile device **110**, the application server may also send a text message alert (or a text message may be automatically be generated by the app) to the mobile device **110** that notifies the user that a message or picture is available. For example, the alert might say "Message Waiting". As another example, the alert might use a trademark phrase such as "WHAT'S IN MY LOCKET?" in order to notify the user that a message or picture is being provided for display.

In one aspect, for a registered electronic locket, once a message or picture is has been sent to the mobile device **110** for display on the locket, if the locket is on or is turned on and within range of the mobile device **110**, the locket and mobile device are synched by connecting at **315** and by forwarding the message to the locket using the BLUETOOTH protocol at **317**. The locket can then display the message on the LCD display at **317**. In other words, the electronic display locket **10** will synch to the mobile device **110** and receive the message for display. In one embodiment, the user may control the synching of the locket **10** to the mobile device **110** with a control button on the locket. In another embodiment, the user may control the synching of the locket **10** to the mobile device **110** by actively generating a synchronization via the locket app on the mobile device **110**.

In one aspect, when a "friend" wishes to send the locket user a picture or message, the friend can access the application server device **210** at **331**, and upon establishing their identity, can upload (either directly, or using an app provided by the application server device **210** to the friend) the picture and/or message for delivery to the locket of the user. In one embodiment, based on a look-up in the profile of the user at **333**, if the user's profile permits receipt of a picture and/or message from the friend, the picture and/or message is received from the friend at **335** and forwarded to the mobile device of the user utilizing the "locket app" synching. In one embodiment, the friend may establish the timing of the forwarding of the picture and/or message. Then, immediately, or at an appropriate time, when the user turns on the locket, or if the locket is kept on, the mobile device will forward the picture and/or message to the locket utilizing the transceivers, and the picture and/or message will appear on the LCD display as previously described.

In one embodiment, the user may set her profile to keep a friend's message or picture for a predetermined amount of time until the default message or picture reappears. In another embodiment, the user may generate a message from the locket via a reset button or the like (not shown) or from the mobile device **210** using the locket app to reset the display. In another embodiment, the profile may keep a friend's message or picture until another message or picture is received.

In one embodiment, the locket has no control buttons for use by the user that impact the receiving or displaying of messages or pictures.

In one embodiment, the locket may have a single button for use by the user for controlling an aspect of the receiving or displaying of messages or pictures.

In one embodiment, the locket may have a button for use by the user that controls the opening of the locket.

In one embodiment, the locket may have a button for use by the user that controls the powering on or off of the locket.

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According to one aspect, the locket may be worn on a wrist and appear to be a wristwatch with a cover.

There have been described and illustrated herein several embodiments of an electronic display locket and system and a method of using the same. While particular embodiments of the invention have been described, it is not intended that the invention be limited thereto, as it is intended that the invention be as broad in scope as the art will allow and that the specification be read likewise. Thus, while particular electronic displays have been disclosed, it will be appreciated that other electronic displays may be used as well. In addition, while particular types of power sources have been disclosed, it will be understood that other power sources can be used. While particular materials for the locket chamber and door have been disclosed, other materials could be utilized. By way of example and not by way of limitation, the locket chamber and/or door could utilize acrylic or other plastics, brass, and other metals or alloys. Also, while the “door” of the locket in the described embodiments as seen as the front of the locket, and the chamber is seen as the back of the locket, the “door” could be the back, and the chamber could be the front. It will therefore be appreciated by those skilled in the art that yet other modifications could be made to the provided invention without deviating from its spirit and scope as claimed.

What is claimed is:

1. An electronic display device, comprising:
 - a chamber having at least one wall, and an opening;
 - a door coupled to said at least one wall and coupled to the chamber so that said door covers at least a first portion of a face of said chamber in a first position and so that said door reveals said at least a first portion of a face of said chamber in a second position;
 - a hinge coupling said door and said chamber, and said chamber, door and hinge comprise a locket having a coupling element that couples to a chain;
 - an electronic display for displaying pictures or messages, said electronic display located in said chamber, wherein said electronic display is at most 2 inches by 2 inches in size;
 - a processor coupled to said electronic display, said processor controlling said electronic display and located in said chamber;
 - a wireless transceiver coupled to said processor and located in said chamber; and
 - a power source coupled to said electronic display and said processor and located in said chamber.
2. The electronic display device according to claim 1, wherein:
 - said power source is a rechargeable battery.
3. The electronic display device according to claim 1, wherein:
 - said power source comprises an induction coil.
4. The electronic display device according to claim 1, wherein:
 - at least one of said at least one side wall, back wall, and door comprises precious metal.
5. The electronic display device according to claim 1, wherein:
 - at least one of said at least one side wall, back wall, and door comprises a semi-precious or precious stone.
6. The electronic display device according to claim 1, further comprising:
 - an on/off switch coupled to said display and activated by said door.

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7. The electronic display according to claim 1, wherein: said wireless transceiver is a short distance wireless transceiver.

8. A system, comprising:

a display device having a chamber with a door coupled thereto, said chamber containing an electronic display, a processor coupled to and controlling said electronic display, a first short distance wireless transceiver coupled to said processor and a power source coupled to said electronic display and said processor;

a mobile unit comprising a second short distance wireless transceiver and a wireless communication element that communicates over a cell-based radio access network, said first and second short distance wireless transceivers adapted to communicate to each other; and

an application server device and associated database, said application server device coupled to the Internet, wherein

said mobile unit is adapted to synchronize to said application server device so that messages and pictures can be sent from said application server device to said mobile unit, said mobile unit is adapted to synchronize to said electronic display device via said first and second short distance wireless transceivers so that said messages and pictures can be sent from said mobile unit to said electronic display device for display on said electronic display, said display device has an identification number stored at said associated database of said application server device, and said associated database further stores a user profile associated with said identification number.

9. The system according to claim 8, wherein: said mobile unit is adapted to run an app provided by said application server device.

10. The system according to claim 8, wherein: said user profile includes at least one of interests, personal information, and social connections of a user of said display device, wherein said user profile is utilized to control content provided by said application server device to said display device.

11. The system according to claim 10, wherein: said social connections includes information regarding at least one authorized friend of the user that permits said application server device to identify contact by the friend.

12. The system according to claim 10, wherein: said profile includes a default picture provided by the user for display on the display device.

13. A system, comprising:

a display device having a chamber with a door coupled thereto, said chamber containing an electronic display, a processor coupled to and controlling said electronic display, a first short distance wireless transceiver coupled to said processor and a power source coupled to said electronic display and said processor, a hinge coupling said door and said chamber, and said chamber, door and hinge comprise a locket having a coupling element that couples to a chain;

a mobile unit comprising a second short distance wireless transceiver and a wireless communication element that communicates over a cell-based radio access network, said first and second short distance wireless transceivers adapted to communicate to each other; and

an application server device and associated database, said application server device coupled to the Internet, wherein

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said mobile unit is adapted to synchronize to said application server device so that messages and pictures can be sent from said application server device to said mobile unit, said mobile unit is adapted to synchronize to said electronic display device via said first and second short distance wireless transceivers so that said messages and pictures can be sent from said mobile unit to said electronic display device for display on said electronic display.

14. The system according to claim **13**, wherein: said display device includes an on/off switch electrically coupled to said electronic display and activated by said door.

15. The system according to claim **13**, wherein: said electronic display is a liquid crystal display (LCD) of at most 2 inches by 2 inches in size.

16. A method for displaying a picture to a user, comprising:
 providing a system including (i) a display device having a chamber with a door coupled thereto, the chamber containing an electronic display, a processor coupled to and controlling the electronic display, a first short distance wireless transceiver coupled to the processor and a power source coupled to the electronic display

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and the processor, and (ii) an application server device and associated database, said application server device coupled to the Internet;
 permitting access by the user to the application server device to register the display device with the application server device and to establish a user profile;
 providing a display device app to a mobile unit of the user that is adapted to synchronize to the application server device so that the picture can be sent from the application server device to the mobile unit, and that is adapted to synchronize to said display device via the short distance wireless transceiver; and
 utilizing the user profile, sending the picture from the application server via the mobile unit of the user to the display device for display on the electronic display.

17. The method according to claim **16**, wherein: the display device comprises a hinge coupling said door and said chamber, and said chamber, door and hinge comprise a locket having a coupling element that couples to a chain, and said electronic display is a liquid crystal display (LCD) of at most 2 inches by 2 inches in size.

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